



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677,134	09/29/2000	Stanton J. Taylor	10022/039	1622

33391 7590 06/15/2005

BRINKS HOFER GILSON & LIONE
ONE INDIANA SQUARE, SUITE 1600
INDIANAPOLIS, IN 46204

EXAMINER

CORRIELUS, JEAN M

ART UNIT PAPER NUMBER

2162

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/677,134

Applicant(s)

TAYLOR, STANTON J.

Examiner

Jean M Corrielus

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 March 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-41 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-41 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. This office action is in response to the Affidavit filed on March 3, 2005, in which claims 1-41 are represented for further examination.

Information Disclosure Statement

2. The information disclosure statement (IDS) filed on March 3, 2005 complies with the provisions of M.P.E.P 609. It has been placed in the application file. The information referred to therein has been considered as to the merits

Drawings

3. Applicants are required to furnish the formal drawings in response to this office action if the formal drawings have not been submitted. No new matter may be introduced in the required drawings. Failure to timely submit a drawing will result in ABANDONMENT of the application.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

5. Claims 1, 2, 6-10, 14, 15, 18, 23, 28 and 37-41 are rejected under 35 U.S.C. 102(a) as being anticipated by Goodyear et al., (article entitled "Netcentric and Client/Server Computing A practice Guide").

Art Unit: 2162

As to claim 1, Goodyear discloses the claimed "a plurality of database servers" **embodiments described on at Exhibits 2-4 and least page 1-8 and 1-9**; "a plurality of data stores each in communication with one of the database servers, wherein the database servers are operable to access the data stores" embodiments described on at **least pages 3-18, 3-22, 5-22**; "client communicating with the database servers, wherein each of the data stores includes a predetermined portion of the data used within the netcentric computing system" **embodiments described on at least pages 1-13, 3-18 associated figures**; and "a webserver in communication with the client to act as the primary interface between and the client and the database servers" embodiments described on at least pages 1-13, 1-14 and 3-18 and associated figures.

As to claim 2, Goodyear discloses the claimed "wherein the client communicates with the database servers using a web browser application" embodiments described on at least page 3-21 and associated figure(s).

As to claim 6, Goodyear discloses the claimed "wherein the predetermined portion of the data representing all of the data in the netcentric computing system resides on at least one central data store" embodiments described on at least page 5-2 and associated figures).

As to claim 7, Goodyear discloses the claimed "wherein a predetermined portion of the data is replicated to form the predetermined portion of the data residing on at least one local data store" embodiments described on at least page 5-3 and associated figures).

Art Unit: 2162

As to claim 8, Goodyear discloses the claimed "wherein the predetermined portion of the data residing on the at least one central data store is segmented" embodiments described on at least pages 5-3, 5-7 and associated figure(s).

As to claim 9, Goodyear discloses the claimed "wherein the predetermined portion of the data residing on the at least one local data store is segmented" embodiments described on at least pages 5-3 and 5-7 and associated figures.

As to claim 10, Goodyear discloses the claimed "a plurality of database servers" embodiments described on **Exhibits 2-4 and least pages 1-8 and 1-9**; "a plurality of data stores in communication with the database servers" embodiments described on at least **pages 3-18, 3-22, 5-22**; "a database located within each of the data stores, wherein each of the databases are representative of a segment of the data in the netcentric computing system" embodiments described on at least page 5-3 and associated figures; "a network for communication with the database servers" embodiments described on at least **pages 1-13, 3-18 associated figures**; "a database located within each of the data stores, wherein each of the databases are representative of a segment of the data in the netcentric computing system" embodiments described on at least **pages 5-3 and 5-7 associated figures**; and "a webserver for communication within the network to provide access by the clients to the data" **embodiments described on at least pages 1-13 and 3-18 and associated figures.**

Art Unit: 2162

As to claim 14, Goodyear discloses the claimed "a central database server located at a central site" **embodiments described on Exhibits 2-4 and least pages 1-8 and 1-9 and associated figures;** "a central data store in communication with the central database server" **embodiments described least pages 3-18, 3-22, 5-22 and associated figures;** "a local database server located at a local site in communication with the central database server" **embodiments described on at least pages 1-13, 3-18 and associated figures;** "a local data store in communication with the local database server wherein the local data store is populated with replica data of the data within the central data store" **embodiments described on at least pages 5-3 and associated figures;** "a network for communication with the local database server and the central database server" **embodiments described on at least pages 3-18, 3-22, 5-22 and associated figures;** and "a webserver for communication within the network to provide the primary interface for the clients to access the data within the netcentric computing system" **embodiments described on at least pages 1-13 and 3-18 and associated figures.**

As to claim 15, Goodyear discloses the claimed "wherein the communication between the central data base server and the local database server is via the network" **embodiments described on at least page 5-2 and associated figures.**

As to claim 18, Goodyear discloses the claimed "identifying the data needs of a plurality of data entity groups within the netcentric computing system" **embodiments described on at least page 1-4, 1-5, 1-8 and 1-9 and associated figures;** "identifying predetermined portions of the data to be used by the data entity groups" **embodiments described on at least page 1-8 and 1-9 and**

Art Unit: 2162

associated figures; "distributing the predetermined portions of the data to a plurality of data stores" embodiments described on at least page 5-14 and associated figures; "communicating with the data stores with a plurality of database servers" embodiments described on at least page 1-8 and 1-9 and associated figures; and "interfacing the database servers with the data entity groups using a webserver" embodiments described on at least pages 1-14 and 3-18 and associated figures.

As to claim 22, Goodyear discloses the claimed "the act of replicating the data to create the predetermined portions of the data" embodiments described on at least page 5-3 and 5-12 and associated figures.

As to claim 23, Goodyear discloses the claimed "determining a plurality of segmentation parameters" **embodiments described on at least pages 5-3, 5-7 and associated figures;** "performing segmentation of the data based on the segmentation parameters" **embodiments described on at least page 5-3 through 5-7 and associated figures;** "storing the segmented data in a plurality of data stores; **embodiments described on at least page 5-7 and associated figures;** "communicating with the data stores with a plurality of database servers" **embodiments described on at least page 1-8, 1-9 and associated figures;** "interfacing the database servers with a plurality of clients using a webserver" **embodiments described on at least pages 1-14, 3-18 and 18-5 and associated figures; and** "selectively accessing the database servers depending on data requests initiated by the clients" **embodiments described on at least page 1-8, 1-9, 1-13 and associated figures.**

Art Unit: 2162

As to claim 28, Goodyear discloses the claimed "storing data in a central database; **embodiments described on at least page 1-8, 1-9, 1-13 and associated figures**; "replicating a predetermined portion of the data to create replica data" **embodiments described on at least page 5-3, 5-12 and associated figures**; "transferring the replica data to a corresponding local database using a network" **embodiments described on at least page 5-3, 5-12 and associated figures**; "updating the data in the central database and the local database" **embodiments described on at least page 5-12 and associated figures**; and "accessing the data and the replica data using the network and a webserver" **embodiments described on at least pages 1-13, 3-18 and 18-14 and associated Figures.**

As to claim 37, Goodyear discloses the claimed "the act of updating the central database and the local database using selective replication" embodiments described on at least page 5-3 and 5-12 and associated figures.

As to claim 38, Goodyear discloses the claimed "the act of updating the central database with a remote log-on approach" embodiments described on at least page 5-2 and associated figures.

As to claim 39, Goodyear discloses the claimed "the act of updating the central database with a remote batch approach" embodiments described on at least page 5-12 and associated figures.

As to claim 40, Goodyear discloses the claimed "the act of updating the central database with a local checkout approach" embodiments described on at least page 5-12 and associated figures.

As to claim 41, Goodyear discloses the claimed "the act of updating the central database and the local database using a local update strategy" embodiments described on at least page 5-12 and associated figures.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 3-5, 11-13, 19-21 and 24-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goodyear et al., (article entitled "Netcentric and Client/Server Computing A practice Guide") and Chaum et al., (hereinafter "Chaum" US Patent no. 5,956,400.

As to claims 3-5, 11-13, 19-21 and 24-27, Goodyear, beside chapters 17 and 18, does not disclose, "a horizontally segmented, a vertically segmented and both horizontally and vertically segmented to form the predetermined portion of the data". On the other hand, Chaum discloses a horizontally segmented, a vertically segmented and both horizontally and vertically segmented to form the predetermined portion of the data" (col.1, lines 15-26; col.8, lines 6-24; col.9, lines 45-60; col.10, lines 31-35). It would have been obvious to one having ordinary skill in the art the time the invention was made to combine the teachings of the cited references, by incorporating in Goodyear Netcentric system the use of a horizontally and vertically segmented to form a predetermined portion of the data in order to increase security, privacy and compliance with privacy legislation, thereby enforcing data access control policies by allowing an arbitrary number

Art Unit: 2162

of parties to share data access control.

As to claim 25, Chaum discloses the claimed "wherein the segmentation parameters comprise a plurality of segmentation keys and the origin of the majority of the data requests" (col.1, lines 15-26; col.8, lines 6-24; col.9, lines 45-60; col.10, lines 31-35).

As to claim 26, Chaum discloses the claimed "wherein the segmentation performed is vertical segmentation" (col.1, lines 15-26; col.8, lines 6-24; col.9, lines 45-60; col.10, lines 31-35).

As to claim 27, Chaum discloses the claimed "wherein the segmentation parameters comprise determination of a plurality of related subject matter areas" (col.1, lines 15-26; col.8, lines 6-24; col.9, lines 45-60; col.10, lines 31-35).

8. Claims 16-17, 29-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goodyear et al., (article entitled "Netcentric and Client/Server Computing A practice Guide") and Chaum et al., (hereinafter "Chaum" US Patent no. 5,956,400 as applied to claims 1-15, 18-28 and 37-40 and further in view of Strickler et al. (hereinafter "Strickler") US Patent no. 6,122,630.

As to claims 16-17, 29 and 36, Chaum does not explicitly disclose a unidirectional and bidirectional replication. On the other hand, Strickler discloses a unidirectional and bidirectional replication (col.1, lines 6-18, 27-40, 53-62, col.3, lines 19-21, lines 29-31; col.5, lines 32-35; col.9, lines 1-2, lines 6-7; col.20, lines 38-40). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the teachings of the cited

Art Unit: 2162

references, by incorporating in Chaum's fragmented system a unidirectional and bidirectional replication to read only and updates to the replica data are performed in the central database in order to share data in one enterprise with minimal impact on the production processing occurring on either system.

As to claim 30, Strickler discloses the claimed "the act of requesting an update to the replica data within the local database from the central database" (col.1, lines 6-18, 27-40, 53-62, col.3, lines 19-21, lines 29-31; col.5, lines 32-35; col.9, lines 1-2, lines 6-7; col.20, lines 38-40).

As to claim 31, Strickler discloses the claimed "the act of creating a snapshot of the data within the central database that corresponds to the replica data when the replica data is transferred" (col.1, lines 6-18, 27-40, 53-62, col.3, lines 19-21, lines 29-31; col.5, lines 32-35; col.9, lines 1-2, lines 6-7; col.20, lines 38-40).

As to claim 32, Strickler discloses the claimed "the act of subsequently updating the local database with replica data that is replicated from the central database following an update of the data in the central database that corresponds to the snapshot" (col.1, lines 6-18, 27-40, 53-62, col.3, lines 19-21, lines 29-31; col.5, lines 32-35; col.9, lines 1-2, lines 6-7; col.20, lines 38-40).

As to claim 33, Strickler discloses the claimed "the act of subsequently updating the local database only with changes to the replica data based on the snapshot" (col.1, lines 6-18, 27-40, 53-62, col.3, lines 19-21, lines 29-31; col.5, lines 32-35; col.9, lines 1-2, lines 6-7; col.20, lines 38-

Art Unit: 2162

40).

As to claim 34, Strickler discloses the claimed "the act of publishing the replica data when a pre-determined threshold is reached" (col.1, lines 6-18, 27-40, 53-62, col.3, lines 19-21, lines 29-31; col.5, lines 32-35; col.9, lines 1-2, lines 6-7; col.20, lines 38-40).

As to claim 35, Strickler discloses the claimed "the acts of monitoring the publications of replica data with a local database server, and updating the corresponding local database with replica data when the replica data that was published is an update to the replica data in the local database" (col.1, lines 6-18, 27-40, 53-62, col.3, lines 19-21, lines 29-31; col.5, lines 32-35; col.9, lines 1-2, lines 6-7; col.20, lines 38-40).

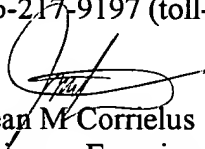
Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean M Corrielus whose telephone number is (571) 272-4032. The examiner can normally be reached on 10 hours shift.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2162

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jean M Corrielus
Primary Examiner
Art Unit 2162

June 13, 2005